

Title (en)

INK CARTRIDGE AND PRINTING APPARATUS

Title (de)

TINTENPATRONE UND DRUCKVORRICHTUNG

Title (fr)

CARTOUCHE D'ENCRE ET APPAREIL D'IMPRESSION

Publication

EP 4159447 A4 20231115 (EN)

Application

EP 21812432 A 20210430

Priority

- CN 202020885920 U 20200525
- CN 202021000434 U 20200604
- CN 202021182775 U 20200623
- CN 202021759045 U 20200821
- CN 202022320862 U 20201019
- CN 202022435691 U 20201028
- CN 2021091324 W 20210430

Abstract (en)

[origin: EP4159447A1] An ink cartridge (40) includes a cartridge body (420), a chip (440) and an ink outlet (430), and further includes at least one positioning part (450) disposed on a side wall (40e, 40f) of the cartridge body (420) intersecting with the third wall (40c) where the chip (440) is disposed; the positioning part (450) has a positioning boss (451, 452), and a distance from the positioning boss (451, 452) to a first wall (40a) of the cartridge body (420) is less than or equal to a maximum distance from the chip (440) to the first wall (40a) of the cartridge body (420), and the distance from the positioning boss (451, 452) to the first wall (40a) of the cartridge body (420) is greater than or equal to a minimum distance from the chip (440) to the first wall (40a) of the cartridge body (420), that is, the positioning boss (451, 452) is within a range of a coverage area (T) of the chip (440) in the a Z-axis direction. The ink cartridge (40) can not only prevent the ink cartridge (40) from being detached from the mounting part of a printing apparatus in a vertical direction, but also prevent a bad connection between the chip (440) and a terminal part of the mounting part caused by the offset of the chip (440) in an extension direction of the third side wall (40c). Further disclosed is a printing apparatus including the ink cartridge (40).

IPC 8 full level

B41J 2/175 (2006.01); **B41J 2/01** (2006.01)

CPC (source: EP)

B41J 2/17513 (2013.01); **B41J 2/1752** (2013.01); **B41J 2/17523** (2013.01); **B41J 2/1753** (2013.01); **B41J 2/17546** (2013.01); **B41J 2/17553** (2013.01)

Citation (search report)

[XAI] US 2020094568 A1 20200326 - KOGANEHIRA SHUICHI [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 4159447 A1 20230405; **EP 4159447 A4 20231115**; WO 2021238581 A1 20211202

DOCDB simple family (application)

EP 21812432 A 20210430; CN 2021091324 W 20210430